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Soviet Arms Shipments to Cuba in 1978 and Trends in 1979

An Intelligence Assessment

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ER 79-10501J September 1979





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Research for this report was completed on 31 August 1979

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	Soviet Arm to Cuba in Trends in 1		
Overview	fourth conse This pattern continued in shipments be equipment h arms flow in Cuba's arme supplied by	sed substantially in 1978 cutive year and reached to of improved quality and the first eight months of egan in early 1976. While as been assigned to the S recent years reflects the ed forces, and to provide r	f identified Soviet military deliveries to; the volume of deliveries rose for the the highest level in more than a decade. high levels of arms shipments has 1979. The strong upward trend in arms a portion of the newer ground oviet brigade in Cuba, the bulk of the USSR's ongoing effort to modernize replacements for military equipment countries, especially Angola and
	Shipments in jet fighter ai delivery of 2 ued on major and ZSU-23 have include	n 1978 were highlighted b rcraft in the spring. Anot 0 AN-26 short-range car r hardware items previous /4 self-propelled antiairc	her first during the past year was the go/troop transports. Delivery contin- sly seen in Cuba, including T-62 tanks raft guns. Deliveries thus far in 1979 the first submarine in Cuba's Navy)
	capability to air assault op maintaining provides Hav home while s	conduct a more mobile merations. This contrasts slargely a "garrison force. and with a large and mor	ubstantially enhanced Cuba's nechanized warfare, including limited tharply with Cuba's historic role of "The inflow of newer equipment re sophisticated arms inventory at undertake offensive military

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Soviet Arms Shipments to Cuba in 1978 and Trends in 1979	
Discussion	
The USSR has supplied almost all the military equipment Cuba has acquired since the early 1960s. The total value of Soviet arms shipments to Cuba from 1961 through yearend 1978 equals \$1.55 billion, including about \$150 million in 1978. On a volume basis, annual arms deliveries to Cuba in the six year following the 1962 missile crisis fluctuated widely, ranging from a low of 6,200 metric tons in 1968 to a high of 41,100 tons in 1967 (see figure 1). In the six-year period following the 1968 low, Soviet arms deliveries to Cuba remained between 10,000 at 12,600 tons. Beginning in 1975, deliveries grew steadily and by 1978 reached 22,400 tons—the highest levin a decade. Arms deliveries in the first eight months 1979 suggest that deliveries for the full year will roughly equal the high 1978 level.	While the USSR has for the most part provided for the gradual improvement in Cuba's military equipment inventory, the pace of modernization picked up in early 1976 and has accelerated since early 1978. As the modernization effort quickened, the Soviets began to offset deliveries of military equipment that Cuba was shipping to Angola. We believe such offsets for arms shipped by Cuba to Third World countries have continued throughout the period and were underscored most recently by replacement of the small but critically important amount of military equipment supplied by Cuba to the Nicaraguan Sandinistas prior to the downfall of Somoza in July 1979. If Moscow had supported neither the modernization nor the offset program, the tonnage necessary to
This analysis includes a full discussion of all identified arms transfers to Cuba, whether by sea or air. However, the numerical tabulation of annual arms shipments is based almost solely on military equipment carried on Soviet merchant ships carrying exclusively military cargoes. These seaborne deliveries, which in most years accounted for over 95 percent of the identified military equipment to Cuba, provide the most definitive year-to-year comparisons of Soviet arms deliveries to Cuba. Deliveries of naval combatants that sail or are towed to Cuba, as well as transport aircraft flown to Cuba for transfer to the armed forces, are exclude from the quantitative analysis	support the Cuban armed forces at the 1974-75 level of strength probably would have been about 12,500 tons annually, the upper end of the range of shipments between 1969 and 1974. Instead, arms shipments rose for four consecutive years through 1978 to an annual average rate of more the 19,000 tons.
² All values are expressed in Soviet trade prices and include only weapon systems and support materiel delivered to Cuba, virtually a of which was destined for the Cuban armed forces. It does not include the costs of developing and maintaining Soviet facilities ar personnel in Cuba or Soviet technical advisory assistance to the Cuban armed forces. If the USSR's arms shipments to Cuba durit the 18-year period were valued at US costs of production (costs of producing comparable weapon systems and support items in the	Soviet arms carriers have arrived in Cuba, bringing 10,900 tons of arms. All but one of these shipments was

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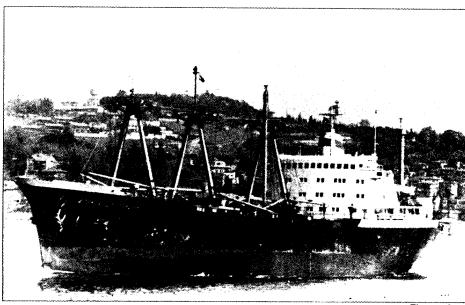
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flight to Cuba occurred in August. The aircraft flew on to Nicaragua, probably carrying humanitarian aid. Despite the overall air activity, the cargo capacity of aircraft currently operating to Cuba remains almost negligible when compared with seaborne arms deliveries; aircraft, however, can provide quick emergency delivery of critical weapons or parts.	25X1 25X1 25X1 25X1 25X1
We believe the bulk of military deliveries to Cuba in 1978 and thus far in 1979 consisted of small arms, ammunition, assorted military trucks, and jeeps. In addition to these standard shipments, Havana received initial deliveries of MIG-23 fighter aircraft, AN-26 troop/cargo transports, and an F-class submarine.	25X1 25X1

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The Aleksandr Gertsen transiting the Bosporus en route to Cuba on 30 April 1978 with a hold cargo suspected of including MIG-23 aircraft.

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Figure 2

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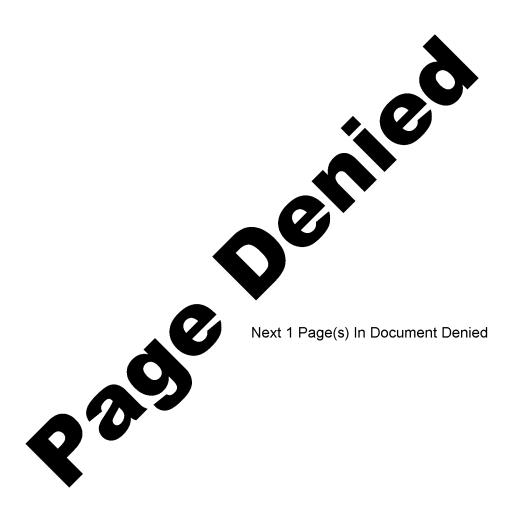
Besides the MIG-23s, Cuba has also received additional numbers of fighters already in inventory (16 MIG-21-Ls and 4 MIG-17s) and initial deliveries of the MI-8 assault helicopter and the USSR's twinturboprop AN-26 transport. With the delivery and assembly of the MI-8 assault helicopters in the spring of 1978, a Cuban Air Force unit, probably a squadron and the first of its kind in Cuba, was formed. The unit was moved to Cienfuegos Airfield and one of its missions probably includes training and tactics for combat operations in Angola. Twenty AN-26s have been delivered to date, with the first five arriving in the fall of 1978. The AN-26 significantly enhances Cuba's short-range cargo/troop airlift capacity: the aircraft has a radius of 810 nautical miles and can carry either 38 lightly armed troops or 4 tons of equipment or some combination of the two. The AN-26 will likely be used by the new land and assault force that paraded in Havana for the first time last January

Naval

The Cuban Navy has received several types of ships during the past 20 months: four additional Osa-II patrol boats; two Turya-class patrol boats, and one Foxtrot-class submarine. Three of the Osa-IIs were towed to Cuba in 1978 and one thus far in 1979, bringing the current inventory to six. The two Turyas arrived in Havana in February 1979 as deck cargo on the Soviet merchant ship Ola (see figure 3). Delivery of the Turyas marked the first time Cuba was the initial recipient of a Soviet weapons system as well as the first time the item has been exported by the USSR. The Foxtrot submarine, which was towed to Cuba flying a Cuban naval ensign, arrived in Cienfuegos on 7 February 1979.

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Top Secret 25X1 25X1 Outlook Soviet efforts to modernize the Cuban military and to offset Havana's arms shipments to Third World countries will continue so long as the political goals and strategic needs of the two nations dovetail. Each of the armed services is likely to benefit from ongoing modernization. On a quantitative basis, the current cycle of increased arms deliveries may be at or close to a peak. Nevertheless, the Soviets have the capability to shift priorities and to raise quickly the level of \$ 25X1 deliveries to any particular arms recipient. Future Soviet deliveries for the Cuban Army are likely to consist primarily of additional quantities of the newer ground equipment Havana began receiving in 1976. Most of the future fighter aircraft deliveries are likely to be MIG-21 J, K, and L models already in the Cuban Air Force. Additional MIG-23s would be a logical complement to the small number now identified in Cuba, 25X1 The USSR is aware of US concern about ground-attack aircraft in Cuba. The reference made by a Cuban official last fall about the possible delivery of the MIG-25 Foxbat was subsequently denied by a Soviet official, but the 25X1 potential remains. The USSR appears intent on measured improvement of Cuba's small Navy during the next few years. The delivery of the F-class submarine, two Turya-class patrol boats and a sixth Osa-II thus far in 1979 have set a tone for such action. We expect Cuba to receive additional F-class submarines and possibly some Shershin-class motor torpedo boats, a logical complement to the Osa-IIs. At least one report indicates that Cuba will receive an unspecified number of Nanuchka-class guided-missile patrol boats. We also look for the USSR to enhance Cuba's very limited antisubmarine warfare capability, combining the delivery of ASW aircraft with the possible transfer of light frigates such as the new Koni-class, which includes launchers for MBU-2500 ASW rockets. 25X1

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